

The Easat EP0409 worm drive pedestal is a lightweight, low noise, high specification turning unit designed to operate in severe environmental conditions with minimal maintenance requirements.

The pedestal is designed to rotate SSR, MSSR and reflector antennas for coastal or port & harbour surveillance applications without the need for radomes. In particular, its lack of belts and reduction gears ensures low noise and vibration making it ideally suited for mounting atop Visual Control Rooms. This gearbox is available in several sizes to meet a variety of load requirements.



Applications:

- SSR or MSSR
- VTS or Coastal Surveillance
- Low Noise Applications

General & Mechanical

Type	2 Stage Low Noise Worm Drive
Material	High grade Cast Iron casing ; hardened, ground worm; nickel-bronze wheel
Weights	Single Drive 690 kg Dual Drive 715kg
Motor	Single or Dual Drive up to 11 kW with fan, thermistor and tropicalised windings Dual Drive variant is complete with electromagnetic clutches.
Rotation rate	Available between 10 and 30 rpm
Design Life	20 years with planned maintenance
Paint finish	Two Pack Polyurethane
Lubrication system	Dry Well System. Dip lubricated in synthetic oil bath: Automatic canister, grease fed main bearings. Grease filled labyrinth seals

Design Parameters

Loadings	Operational	Max Survival (Non-Operational)
Rotating Mass	1500 kg	3800 kg (Iced)
Shear Load	20 kN	54 kN
Overturning Moment	56 kNm about customer interface	150 kNm about customer interface
Max running torque	10.4 kNm	
Max starting torque	15 kNm (Direct On Line)	

Environmental

Operational Wind Speed	Operational to 130 km/hr
Survival Wind Speed	210 km/hr with 40 mm ice
Humidity	Up to 100% condensing
Operational temp.	-30°C to +70°C standard -50°C to +70°C with optional cold weather kit
Altitude	SL to 4000 m
Protection	Suitable for salt laden coastal environment.

Electrical Specification

Requirement	Recognised 3 phase supply sufficient to operate the motor rating (max 11 kW)
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Options

Choice of type and single or dual encoders; Variety of speed options
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Specifications are subject to change as part of Easat's ongoing improvement policy. Customers are advised to confirm specification prior to contract